TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants	TEJUS CONSULTANTS
Contractor	M/s Slp Infra Engineers Pvt Ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE	
Sample Location	At Site/Plant	Date of Sampling	02.05.19	
		Date of Testing	02.05.19	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	528	528	5.28	94.72	90-100
10.0	4695	5223	52.23	47.77	40-85
4.75	4555	9778	97.78	2.22	0-10
Pan	222	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Slp Infra Engineers Pvt Ltd.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02.05.19	30.05.19	28days	8.136	22500	455	20.22	20.81
2	02.05.19	30.05.19	28days	8.142	22500	460	20.44	
3	02.05.19	30.05.19	28days	8.148	22500	490	21.78	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Slp Infra Engineers Pvt Ltd.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg		KN	N/mm^2	N/mm^2
1	03.05.19	10.05.19	7 days	8.122	22500	285	12.67	13.35
2	03.05.19	10.05.19	7 days	8.146	22500	296	13.16	
3	03.05.19	10.05.19	7 days	8.142	22500	320	14.22	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Slp Infra Engineers Pvt Ltd.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	03.05.19	31.05.19	28days	8.139	22500	451	20.04	20.65
2	03.05.19	31.05.19	28days	8.146	22500	453	20.13	
3	03.05.19	31.05.19	28days	8.148	22500	490	21.78	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Slp Infra Engineers Pvt Ltd.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02.05.19	09.05.19	7 days	8.122	22500	290	12.89	13.45
2	02.05.19	09.05.19	7 days	8.146	22500	293	13.02	
3	02.05.19	09.05.19	7 days	8.142	22500	325	14.44	

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PRECAST SLAB (CORE) TEST REPORT

	:	Bruhat Bangalore Mahanagara Palike
	:	M/s Slp Infra Engineers Pvt Ltd.
Work	:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
mple Tested	:	3
Testing	:	03.06.19
Reference	:	**IS:516-1959 (Reaffirmed 1999), SP-24:1983.**
Concrete	:	M_{20} - 150mm thick

Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
50	140	0.66	2400.966	2.80	0.96	39.00	19.863	21.452	20.593	25.742
50	140	0.66	2400.966	2.80	0.96	38.53	19.623	21.193	20.345	25.432
50	140	0.66	2400.966	2.80	0.96	38.90	19.812	21.397	20.541	25.676

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the laboratory and Site

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PRECAST SLAB (CORE) TEST REPORT

	:	Bruhat Bangalore Mahanagara Palike
	:	M/s Slp Infra Engineers Pvt Ltd.
Work	:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
mple Tested	:	3
Testing	:	03.06.19
Reference	:	**IS:516-1959 (Reaffirmed 1999), SP-24:1983.**
Concrete	:	M_{20} - 150mm thick

Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
50	140	0.66	2400.966	2.80	0.96	38.00	19.353	20.902	20.065	25.082
50	140	0.66	2400.966	2.80	0.96	38.10	19.404	20.957	20.118	25.148
50	140	0.66	2400.966	2.80	0.96	38.20	19.455	21.012	20.171	25.214

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AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

TEJUS CONSULTANTS

Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11		
Client	BRUHAT BANGALORE MAHANAGARA PALIKE		
Consultant	M/s Tejus Consultants		
Contractor	M/s Slp Infra Engineers Pvt Ltd.		
Proposed Use	BC	**Date of Sampling**	**13.08.19**
Sample Location	At plant	**Date of Testing**	**13.08.19**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	385.00	360.00	342.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	285.00	260.00	255.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	100.00	100.00	87.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.97	27.78	25.44	
5	Average Aggregate impact value	(%)	26.40			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

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AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

TEJUS CONSULTANTS

Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11		
Client	BRUHAT BANGALORE MAHANAGARA PALIKE		
Consultant	M/s Tejus Consultants		
Contractor	M/s Slp Infra Engineers Pvt Ltd.		
Proposed Use	BC	**Date of Sampling**	**13.08.19**
Sample Location	At plant	**Date of Testing**	**13.08.19**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	410.00	458.00	426.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	300.00	360.00	336.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	110.00	98.00	90.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	26.83	21.40	21.13	
5	Average Aggregate impact value	(%)	23.12			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Project :	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor:	M/s Slp Infra Engineers Pvt Ltd.

Type of Material	BC	**Proposed Use**	**BC**
Sample Location	At plant	**Date of Sampling**	**13.08.19**
		Date of Testing	**13.08.19**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	630	73	560	70
16.0	12.5	1225	112	1125	85
12.5	10.0	525	72	450	60
10.0	6.3	520	56	460	50
Total		**2900**	**313**	**2595**	**265**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.79	
Elongation Index(%):	10.21	
Combined FI+EL (%)	21.01	

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FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Project :	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor:	M/s Slp Infra Engineers Pvt Ltd.

Type of Material	BC	**Proposed Use**	**BC**
Sample Location	At plant	**Date of Sampling**	**13.08.19**
		Date of Testing	**13.08.19**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	624	70	554	65
16.0	12.5	1210	110	1100	85
12.5	10.0	510	70	440	60
10.0	6.3	500	50	450	50
Total		**2844**	**300**	**2544**	**260**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.55
Elongation Index(%):	10.22
Combined FI+EL (%)	20.77

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GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Name of Work	:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Slp Infra Engineers Pvt Ltd.
Date of Testing	:	13.08.19
Type of Mix	:	BC
Sample I/D	:	BC3

Sample Location:	At plant	Date of Sampling:	13.08.19
Type of material & Purpose:	BC	Date of testing:	13.08.19
		Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	150	150.0	12.50	87.50	79 - 100
9.50	120	270.0	22.50	77.50	71 - 95
4.75	210	480.0	40.00	60.00	53 - 71
2.360	130	610.0	50.83	49.17	42 - 58
1.180	135	745.0	62.08	37.92	34 - 48
0.600	120	865.0	72.08	27.92	26 - 38
0.300	124	989.0	82.42	17.58	18 - 28
0.150	80	1069.0	89.08	10.92	12 - 20
0.075	50	1119.0	93.25	6.75	4 - 10
Pan	81.0				
Total	1200.0				

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

me of Work :	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
ient :	BRUHAT BANGALORE MAHANAGARA PALIKE
nsultant :	M/s Tejus Consultants
ntractor :	M/s Slp Infra Engineers Pvt Ltd.
te of Testing :	14.08.19
pe of Mix :	BC
mple I/D :	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
Weight of Mixture before extraction, g	845	852
Weight of Mixture after extraction, g	800	807
Weight of Bitumen	45	45
Weight of filter paper before extraction, g	2.00	2.00
Weight of filter paper after extraction, g	4.10	4.00
Weight of fines, g	1.40	1.70
Weight of Bitumen & fines	46.40	46.70
Bitumen content in %	5.49	5.48
Average Bitumen content in %	5.49	
. Minimum Bitumen content in %	5.40	

GRADATION FOR BC AFTER EXTRACTION

(As per MORT&H 500-18,Grading-2)

mple Location:	At site	Date of Sampling:	14.08.19
ype of material & urpose:	BC	Date of testing:	14.08.19
		Oven Dry Wt.(gms):	800.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	100	100.0	12.50	87.50	79 - 100
9.50	65	165.0	20.63	79.38	71 - 95
4.75	135	300.0	37.50	62.50	53 - 71
2.360	100	400.0	50.00	50.00	42 - 58
1.180	85	485.0	60.63	39.38	34 - 48
0.600	85	570.0	71.25	28.75	26 - 38
0.300	45	615.0	76.88	23.13	18 - 28
0.150	60	675.0	84.38	15.63	12 - 20
0.075	75	750.0	93.75	6.25	4 - 10
Pan	50.0				
Total	800.0				

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TEJUS CONSULTANTS

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work :	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	M/s Slp Infra Engineers Pvt Ltd.
Date of Testing :	14.08.19
Type of Mix :	BC
Sample I/D :	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	868	795
2. Weight of Mixture after extraction, g	822	754
3. Weight of Bitumen	46	41
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.10	4.00
6. Weight of fines, g	1.40	1.70
7. Weight of Bitumen & fines	47.40	42.70
8. Bitumen content in %	5.46	5.37
9. Average Bitumen content in %	5.42	
10. Minimum Bitumen content in %	5.40	

GRADATION FOR BC AFTER EXTRACTION

(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	14.08.19
Type of material & Purpose:	BC	Date of testing:	14.08.19
		Oven Dry Wt.(gms):	822.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	98	98.0	11.92	88.08	79 - 100
9.50	102	200.0	24.33	75.67	71 - 95
4.75	111	311.0	37.83	62.17	53 - 71
2.360	116	427.0	51.95	48.05	42 - 58
1.180	82	509.0	61.92	38.08	34 - 48
0.600	60	569.0	69.22	30.78	26 - 38
0.300	78	647.0	78.71	21.29	18 - 28
0.150	51	698.0	84.91	15.09	12 - 20
0.075	60	758.0	92.21	7.79	4 - 10
Pan	64.0				
Total	822.0				

Note:

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

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DETERMINATION OF RATE OF SPREAD TACK COAT

TEJUS CONSULTANTS

Name of Work :	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	M/s Slp Infra Engineers Pvt Ltd.
Date of Testing :	14.08.19
Type of Mix :	Tack coat
Sample I/D :	1

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.788	0.785	0.752
Final weight of plate after application of tack Coat (c)	Kg	0.811	0.808	0.775
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.250	0.256	0.251
Average	Kg/sq.m	0.252		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

Note:

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DETERMINATION OF RATE OF SPREAD TACK COAT

Name of Work :	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
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Date of Testing :	14.08.19
Type of Mix :	Tack coat
Sample I/D :	1

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.765	0.743	0.755
Final weight of plate after application of tack Coat (c)	Kg	0.788	0.766	0.778
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.250	0.256	0.251
Average	Kg/sq.m	0.252		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

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